

## ABSTRACT

5       A sensor signal conditioning circuit and sensor system incorporating  
the same. In one embodiment, the signal conditioning circuit includes a DC-  
coupled detector that converts a sensor signal into a discrete level signal.  
An AC-coupled detector having a dynamic DC threshold input also converts  
the sensor signal into a discrete level signal and has a startup delay  
associated with the dynamic DC threshold input. The signal conditioning  
10   circuit further includes a device that inhibits the DC-coupled detector  
responsive to the dynamic DC threshold input reaching a specified threshold  
voltage level such that the AC-coupled detector provides the detected output  
during steady-state sensor operation.